

**INFORMATION
DISCLOSURE
STATEMENT**

Atty. Docket No.: 235.00540101

Serial No.: 10/579,090

Applicant(s): Duncan C. Ferguson

Confirmation No.: 5257

Application Filing Date: May 12, 2006

Group: 1761

Information Disclosure Statement mailed:

8 October 2007

**U.S. PATENT DOCUMENTS**

Examiner Initial	copy enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

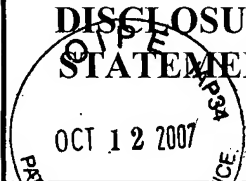
FOREIGN PATENT DOCUMENTS

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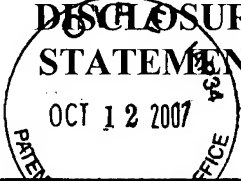
Examiner Initial	copy enclosed	Document Description
	X	Barany and Merrifield (Gross and Meienhofer, Eds.) <i>The Peptides</i> Volume 2 Academic Press: City, State; 1980. Title page, publisher's page and table of contents only.
	X	Ben-Menahem et al., "The position of the alpha and beta subunits in a single chain variant of human chorionic gonadotropin affects the heterodimeric interaction of the subunits and receptor-binding epitopes," <i>J. Biol. Chem.</i> , 2001; 276:29871-29879.
	X	Broome et al., "Predictive value of tracer studies for 131I treatment in hyperthyroid cats," <i>Am. J. Vet. Res.</i> , 1988; 49(2):193-197.
	X	Carter et al., "Humanization of an anti-p185HER2 antibody for human cancer therapy," <i>Proc. Nat'l Acad. Sci. USA</i> , 1992; 89:4285-4289.
	X	Chard et al., "Fluoroimmunoassay for human choriomammotropin," <i>Clinical Chemistry</i> , 1979; 25(6):973-975.
	X	Chin et al., "Nucleotide sequence of the mRNA encoding the pre-alpha-subunit of mouse thyrotropin," <i>Proc. Natl. Acad. Sci. USA</i> , 1981; 78:5329-5333.
	X	Clark-Lewis et al., "Chemical synthesis, purification, and folding of C-X-C and C-C chemokines," <i>Meth. Enzymol.</i> , 1997; 287:233-250.
	X	Coligan et al. (Eds.), "Chapter 9: Peptides" <i>Current Protocols in Immunology</i> , Volume 3. John Wiley & Sons, Inc: Somerset, NJ; 1991. Title page, publisher's page, and table of contents.

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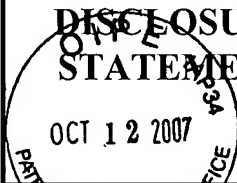
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	X	Coligan et al. (Eds.), "Chapter 2: Induction of Immune Responses (Section II 'Production of Antibodies' and Section III 'Purification and Fragmentation of Antibodies') " <i>Current Protocols in Immunology</i> , John Wiley & Sons, Inc: Somerset, NJ; 1991. Title page, publisher's page, table of contents, and sections 2.8.1-2.8.10 and 2.10.1-2.10.4.
	X	Crichton et al., "Efficacy of porcine gonadotropins for repeated stimulation of ovarian activity for oocyte retrieval and in vitro embryo production and cryopreservation in Siberian tigers (<i>Panthera tigris altaica</i>)," <i>Biol. Reprod.</i> , 2003; 68(1):105-113.
	X	Croyle et al., "Analysis of the organization and nucleotide sequence of the chromosomal gene for the beta-subunit of rat thyrotropin," <i>DNA</i> , 1986; 5:299-304.
	X	Erwin et al., "Nucleotide sequence of cloned complementary deoxyribonucleic acid for the alpha subunit of bovine pituitary glycoprotein hormones," <i>Biochemistry</i> , 1983; 22:4856-2860.
	X	Ferguson, "Early Detection of Hyperthyroidism," Meeting Abstract. Morris Animal Health Foundation: A Healthier Tomorrow for Animals 2001 Annual Meeting. Lake Tahoe, Nevada June 7-9, 2001. Available online [retrieved December 6, 2006]. Retrieved from the Internet: < http://web.archive.org/web/20011101225158/www.morrisanimalfoundation.org/feline_studies.html >; 6 pgs.
	X	Fiddes et al., "Isolation, cloning and sequence analysis of the cDNA of the alpha-subunit of human chorionic gonadotropin," <i>Nature</i> , 1979; 281:351-356.
	X	Gesundheit et al., "Mechanisms and regulation of TSH glycosilation," <i>Adv. Exp. Biol.</i> , 1986; 205:87-105.
	X	Gharib et al., "Molecular biology of the pituitary gonadotropins," <i>Endocrine Reviews</i> , 1990; 11:177-199.
	X	Godine et al., " α -Subunit of rat pituitary glycoprotein hormones. Primary structure of the precursor determined from the nucleotide sequence of cloned cDNAs," <i>J. Biol. Chem.</i> , 1982; 257:8368-8371.

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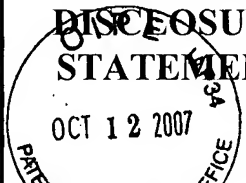
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	X	Graham et al., "The Measurement of Feline Thyrotropin (TSH) Using a Commercial Canine Immunoradio-Metric Assay." 18 th Annual ACVIM Forum: Abstract No. 59. Seattle, WA. May 25-28, 2000.
	X	Gram et al., "In vitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library," <i>Proc. Natl. Acad. Sci.</i> , 1992; 89:3576-3580.
	X	Green et al. (Manson ed.) "Production of Polyclonal Antisera" <i>Immunochemical Protocols</i> , Humana Press: Totowa, NJ; 1992. Title page, publisher's page, table of contents, and pp. 1-5.
	X	Green et al., "Antigen-specific human monoclonal antibodies from mice engineered with human Ig heavy and light chain YACs," <i>Nature Genet.</i> , 1994; 7:13-21.
	X	Harlow et al., <i>Antibodies: A Laboratory Manual</i> , Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY; 1988. Title page, publisher's page, table of contents and pp 319, 726.
	X	Hayashizaki et al., "Molecular cloning of the human thyrotropin-beta subunit gene," <i>FEBS Lett.</i> , 1985; 188:394-400.
	X	Hoenig et al., "Assessment of thyroid functional reserve in the cat by the thyrotropin-stimulation test," <i>Amer. J. Vet. Res.</i> , 1983; 44:1229-1232.
	X	Hollister et al., "Engineering lepidopteran insect cells for sialoglycoprotein production by genetic transformation with mammalian β -1,4-galactosyltransferase and α -2,6-sialyltransferase genes," <i>Glycobiology</i> , 2001; 11(1):1-9.
	X	Hollister et al., "Evidence for a sialic acid salvaging pathway in lepidopteran insect cells," <i>Glycobiology</i> , 2003; 13(6):487-495.
	X	Jones et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse," <i>Nature</i> , 1986; 321:522-525.
	X	Kay et al., <i>Phage display of peptides and proteins: A laboratory manual</i> , Academic Press: San Diego, CA; 1996. Title page, publisher's page, and table of contents.

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	X	Kermani et al., "Production of ScFv antibody fragments following immunization with a phage-displayed fusion protein and analysis of reactivity to surface-exposed epitopes of the protein F of <i>Pseudomonas aeruginosa</i> by cytofluorometry," <i>Hybridoma</i> , 1995; 14:323-328.
	X	Kohler et al., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> , 1975; 256:495-497.
	X	Lapthorn et al., "Crystal structure of human chorionic gonadotropin," <i>Nature</i> , 1994; 369:455-461.
	X	Lonberg et al., "Antigen-specific human antibodies from mice comprising four distinct gene modifications," <i>Nature</i> , 1994; 368:856-859.
	X	Martin et al., "Evaluation of dietary and environmental risk factors for hyperthyroidism in cats," <i>J. Am Vet. Med. Assoc.</i> , 2000; 217(6):853-856.
	X	Maurer et al., "The sequence of a cloned cDNA for the beta subunit of bovine thyrotropin predicts a protein containing both NH ₂ - and COOH-terminal extensions," <i>J. Biol. Chem.</i> , 1984; 259:5024-5027.
	X	Mayer et al. (Eds.), <i>Immunochemical Methods in Cell and Molecular Biology</i> . Elsevier, Inc: New York, NY; 1987. Title page, publisher's page and table of contents only.
	X	Meienhofer et al. (Li, Ed.), <i>Hormonal Proteins and Peptides</i> , Academic Press: New York NY; 1973; Volume 2. Title page, publisher's page and table of contents only.
	X	Merrifield, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide" 1963 <i>J. Am. Chem. Soc.</i> 85:2149.-2154.
	X	Merrifield, "Automated Synthesis of Peptides," 1965 <i>Science</i> 150(693):178-185.
	X	Merrifield, "Solid Phase Synthesis," 1986 <i>Science</i> 232(4787):341-347.
	X	Morrison, "Immunology: Success in Specification." 1994 <i>Nature</i> 368:812-813.

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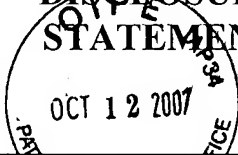
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	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenPept Locus P54828, Accession No. P54828, "Thyrotropin subunit beta precursor (Thyroid-stimulating hormone subunit beta) (TSH-beta) (TSH-B) (Thyrotropin beta chain)," [online]. Bethesda, MD [retrieved on 2007-04-10]. Retrieved from the Internet:< http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=protein&val=1717805 >; 3 pgs.
	X	O'Brien et al., "The cloning and expression of the alpha subunit of equine glycoprotein hormones," <i>Biochem. Soc. Trans.</i> , 1995; 23:347S.
	X	Olson et al., "Production of a biologically active variant form of recombinant human secretin," <i>Peptides</i> , 1988; 9:301-307.
	X	Orlandi et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," <i>Proc. Nat'l. Acad. Sci. USA</i> , 1989; 86:3833-3837.
	X	Patel, "Glycoprotein Hormones: A Clapsed Embrace." 1994 <i>Nature</i> 369:438-439.
	X	Porter, "The hydrolysis of rabbit γ -globulin and antibodies with crystalline papain," <i>Biochem. J.</i> , 1959; 73:119-126.
	X	Rayalam, Srujana "Cloning, Expression, and Purificaion of Recombinant Feline Thyrotropin (fTSH): Effect of Glycosylation on Immunoreactivity." PhD Thesis: available October 9, 2006.
	X	Riechmann et al., "Reshaping human antibodies for therapy," <i>Nature</i> , 1988; 332:323-327.
	X	Sairam et al., "A role for glycosilation of the alpha subunit in transduction of biological signal in glycoprotein hormones," <i>Science</i> , 1985; 229:65-67.
	X	Sambrook et al., <i>Molecular Cloning: A Laboratory Manual</i> , 3 rd ed., Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY; 2001. Title page, publisher's page, and table of contents.
	X	Sandhu, "Protein engineering of antibodies," <i>Crit. Rev. Biotech.</i> , 1992; 12:437-462.

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	X	Sanna et al. "Directed selection of recombinant human monoclonal antibodies to herpes simplex virus glycoproteins form phage display libraries," <i>Proc. Natl. Acad. Sci.</i> , 1995; 92:6439-6443.
	X	Schmitz et al., "Phage display: a molecular tool for the generation of antibodies - a review," <i>Placenta</i> , 21 Suppl., 2000; S106-12.
	X	Seelan et al., "Structural organization and promoter analysis of the bovine cytochrome c oxidase subunit VIIc gene. A functional role for YY1," <i>J. Biol. Chem.</i> , 1997; 272:10175-10181.
	X	Singer et al., "Optimal humanization of 1B4, an anti-CD18 murine monoclonal antibody, is achieved by correct choice of human V-region framework sequences," <i>J. Immunol.</i> , 1993; 150:2844-2857.
	X	Stewart et al., <i>Solid Phase Peptide Synthesis</i> , W.H.Freeman Co., San Francisco, 1969. Title page, publisher's page and table of contents only.
	X	Studer et al., "Natural heterogeneity of thyroid cells: the basis for understanding thyroid function and nodular goiter growth," 1989 <i>Endocrine Rev</i> , 10(2):125-135.
	X	Tatusova et al., "BLAST 2 Sequences, a new tool for comparing protein and nucleotide sequences," <i>FEMS Microbiol. Lett.</i> , 1999; 174:247-250.
	X	Taylor et al., "Human immunoglobulin transgenes undergo rearrangement, somatic mutation and class switching in mice that lack endogenous IgM," <i>Int. Immunol.</i> , 1994; 6:579-591.
	X	Tessier et al., "Enhanced secretion from insect cells of a foreign protein fused to the honeybee melittin signal peptide," <i>Gene</i> , 1991; 98(2):177-183.
	X	Thompson et al., "CLUSTAL W: Improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice," <i>Nucl. Acids Res.</i> , 1994; 22:4673-4680.
	X	Thotakura et al., "Structure-function studies of oligosaccharides of recombinant human thyrotropin by sequential deglycosylation and resialylation," <i>Glycobiology</i> , 1994; 4:525-533.
	X	Thotakura et al., "Glycoprotein hormones: glycobiology of gonadotropins, thyrotropin and free alpha subunit," <i>Glycobiology</i> , 1995; 5:3-10.

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	X	Verhoeven et al., "Reshaping human antibodies: grafting an antilysozyme activity," <i>Science</i> , 1988; 239:1534-1536.
	X	Ward et al. (Committee on Methods of Producing Monoclonal Antibodies) <i>Monoclonal Antibody Production</i> , Institute for Laboratory Animal Research, National Research Council, The National Academy Press: Washington, D.C.; 1999. Title page, publisher's pgs., preface, and table of contents.
	X	Williams et al., "Validation of an immunoassay for canine thyroid-stimulating hormone and changes in serum concentration following induction of hypothyroidism in dogs," <i>J. Am. Vet. Med. Assoc.</i> , 1996; 209:1730-1732.
	X	Wolf et al., "Expression of the gene for the beta subunit of mouse thyrotropin results in multiple mRNAs differing in their 5'-untranslated regions," <i>J. Biol. Chem.</i> , 1987; 262:16596-16603.
	X	Wondisford et al., "Isolation and characterization of the human thyrotropin beta-subunit gene. Differences in gene structure and promoter function from murine species," <i>J. Biol. Chem.</i> , 1988; 263:12538-12542.
	X	Yang, "Cloning of canine, equine and ovine thyrotropin genes and production of recombinant canine thyrotropin," University of Georgia, PhD Thesis: available July 29, 1997.
	X	Yang et al., "Canine thyrotropin beta-subunit gene: cloning and expression in <i>Escherichia coli</i> , generation of monoclonal antibodies, and transient expression in the Chinese hamster ovary cells," <i>Domestic Animal Endocrinology</i> , 2000; 18(4):363-78.
	X	Yang et al., "cDNA cloning of canine common alpha gene and its co-expression with canine thyrotropin beta gene in baculovirus expression system," <i>Domestic Animal Endocrinology</i> , 2000; 18(4):379-93.
	X	Zerfaoui et al., "Glycosylation is the structural basis for changes in polymorphism and immunoreactivity of pituitary glycoprotein hormones," <i>Eur. J. Clin. Chem and Clin. Biochem.</i> , 1996; 34:749-753.

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